

AMENDMENTS

Listing of Claims

The following listing of claims replaces all previous listings or versions thereof:

1-26. (Canceled)

27. (Currently amended) A peptide composition comprising a peptide molecule consisting of about forty amino acids or less and comprising a peptide sequence selected from the group consisting of PPPGRRP (SEQ ID NO:1), GRGRGRGG (SEQ ID NO:2), RGRGREK (SEQ ID NO:3), GAGAGAGAGAGAGAGAGAGAGAGAGAGA (SEQ ID NO:7), GPQRRGGDNHGRGRGRGRGGGRPG (SEQ ID NO:13), GGSGSGPRH RDGVRRPQKRP (SEQ ID NO:14), RPQKRPSC (SEQ ID NO:15), QKRPSCIGCKGTHGGTG (SEQ ID NO:16), GTGAGAGAGARGRG (SEQ ID NO:17), SGGRGRGG (SEQ ID NO:18), RGGSGGRRGRGR (SEQ ID NO:19), RARGRGRGRGEKRPRS (SEQ ID NO:20), SSSSGSPPRRPPPGR (SEQ ID NO:21), RPPPGRRPFFHPVGEADYF EYHQEG (SEQ ID NO:22), ~~PDVPPGAI~~ (SEQ ID NO:23), GPSTGRPG (SEQ ID NO:25), GQGDGGRRK (SEQ ID NO:26), DGGRRKKGGWFGKHR (SEQ ID NO:27), GKHRGQGGSN (SEQ ID NO:28), GQGGSNPK (SEQ ID NO:29), NPKFENIA (SEQ ID NO:30), RSHVERTT (SEQ ID NO:31), VFVYGGSKT (SEQ ID NO:32), GS KTSLYNL (SEQ ID NO:33), GMAPGP GP (SEQ ID NO:34), PQPGPLRE (SEQ ID NO:35), CNIRVTVC (SEQ ID NO:36), RVTVCSFDDG (SEQ ID NO:37), PPWFPPMVEG (SEQ ID NO:38) and combinations thereof, wherein the peptide is present either in free form or bound to a carrier molecule.

28. (Canceled)

29. (Previously presented) The composition of claim 27, wherein the peptide molecule or molecules are in a pharmaceutically acceptable carrier.

30. (Withdrawn) The composition of claim 27 mobilized to a solid support.

31. (Withdrawn) The composition of claim 27 labeled with a detectable label.

32. (Withdrawn) The composition of claim 30 immobilized to multiwell plates.

33. (Withdrawn) The composition of claim 30 immobilized to a gel suitable for affinity chromatography.

34. (Withdrawn) The composition of claim 27 bound by autoantibodies in patients characterized by specific disorders.

35. (Currently amended) A method for determining the likelihood that an individual has or will develop an autoimmune disorder comprising screening their antibodies for reactivity with a peptide molecule consisting of about forty amino acids or less and comprising a peptide sequence selected from the group consisting of PPPGRRP (SEQ ID NO:1), GRGRGRGG (SEQ ID NO:2), RGRGREK (SEQ ID NO:3), GAGAGAGAGAGAGAGAGAGAGAGAGA (SEQ ID NO:7), ~~GPQRGGDNHGRGRGRGRGGGRPG~~ (SEQ ID NO:13), GGSGSGPRHRDGVRPQKRP (SEQ ID NO:14), RPQKRPSC (SEQ ID NO:15), QKRPSCIGCKGTHGGTG (SEQ ID NO:16), GTGAGAGARGRGG (SEQ ID NO:17), SGGRGRGG (SEQ ID NO:18), RGGSGRRGRGR (SEQ ID NO:19), RARGRGRGRGEKPRS (SEQ ID NO:20), SSSSGSPPRPPPGR (SEQ ID NO:21), RPPPGRRPFFHPVGEADYFEYHQEG (SEQ ID NO:22), ~~PDVPPGAI~~ (SEQ ID NO:23), ~~PGAIEQGPA~~ (SEQ ID NO:24), GPSTGRPG (SEQ ID NO:25), GQGDGGRRK (SEQ ID NO:26), DGGRRKKGGWFGKHR (SEQ ID NO:27), GKHRGQGGSN (SEQ ID NO:28), GQGGSNPK (SEQ ID NO:29), NPKFENIA (SEQ ID NO:30), RSHVERTT (SEQ ID NO:31), VFVYGGSKT (SEQ ID NO:32), GSCTSLYNL (SEQ ID NO:33), GMAPGPGP (SEQ ID NO:34), PQPGPLRE (SEQ ID NO:35), CNIRVTVC (SEQ ID NO:36), RVTVCSFDDG (SEQ ID NO:37), PPWFPPMVEG (SEQ ID NO:38) and combinations thereof, wherein the peptide is present in either free form or bound to a carrier molecule.

36. (Withdrawn) The method of claim 35 wherein the peptide molecules are immobilized to a solid support.

37. (Withdrawn) The method of claim 35 wherein the peptide molecules are labeled with a detectable label.

38. (Withdrawn) The method of claim 35 wherein the peptide molecules are immobilized to multiwell plates.

39. (Withdrawn) The method of claim 35 wherein the peptide molecules are immobilized to a gel suitable for affinity chromatography.

40. (Withdrawn) The method of claim 35 wherein the peptide molecules are bound by autoantibodies.